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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/715,663	11/18/2003	Atsushi Nakamura	YAMAP0892US	5341
43076	7590	11/27/2007	EXAMINER	
MARK D. SARALINO (GENERAL) RENNER, OTTO, BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE, NINETEENTH FLOOR CLEVELAND, OH 44115-2191			CHOW, LIXI	
ART UNIT		PAPER NUMBER		
2627				
MAIL DATE		DELIVERY MODE		
11/27/2007		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/715,663	NAKAMURA ET AL.
	Examiner	Art Unit
	Lixi Chow	2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 14 September 2007.  
 2a) This action is **FINAL**.      2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-7,9-19 and 21-24 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-7,9,13-19 and 21 is/are rejected.  
 7) Claim(s) 10,12 and 22-24 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____	6) <input type="checkbox"/> Other: _____

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4-7, 9, 13, 14, 16-19 and 21 are rejected Under 35 U.S.C. 103(a) as being unpatentable over Tasaka et al. WO 02/089123 (see Tasaka et al. US 7,068,579; hereafter Tasaka'579) in view of Van Den Enden et al. WO00/34952 (see US 6,628,583 ;hereafter Van Den Enden'583) as applied in the last Office Action.

3. Claims 3 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tasaka'579 in view of Van Den Enden'583 as applied to claims 1 and 13 above, and further in view of Nakajima et al. WO 02/084653 (see Nakajima et al. US 7,095,696; hereafter Nakajima'696) as applied in the last Office Action.

### *Allowable Subject Matter*

4. Claims 10-12 and 22-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

In regards to claim 10-12, none of the reference of record along or in combination disclose or suggest a recording/reproduction method, wherein: the measuring step comprises measuring a jitter value; the recording pulse contains a first pulse, a multipulse, and a cooling pulse; and **the step of changing the parameter of the recording pulse comprises changing a**

**movement amount of the first pulse based on the leading edge shift amount, changing a movement amount of the cooling pulse, and/or multipulse based on the trailing edge shift amount, and changing a movement amount of the multipulse, and/or cooling pulse based on the jitter value, and/or changing a power of the multipulse based on the trailing edge shift amount.**

Claims 22-24 recite similar limitations as claims 10-12; hence, they are objected under the same reasons set forth in claims 10-12.

*Response to Arguments*

5. Applicant's arguments filed 09/14/07 have been fully considered but they are not persuasive.

Applicant argues that the motivation set forth in the previous Office Action would not prompt one of ordinary skill in the art to combine the teachings of Tasaka et al. and Van Den Enden et al. Applicant states that the present invention is not concerned with repeatedly recording data in a linking area as taught by Van Den Enden et al., but rather the present invention uses the random signal sequence simply to determine the parameter changes which are subsequently used for the recording of data on the information layer. Although the motivation set forth in previous Office Action differs from Applicant's motivation to use a random signal sequence, however, accordingly to *Graham v. John Deere*, Applicant's motivation to use random signal sequence is of a secondary consideration. Since Van Den Enden et al. clearly teaches the benefit of using a random signal sequence, i.e., to avoid damages to recording layer due to repeat overwrite of the same location, one of ordinary skill in the art would have been motivated to combine the teaching of Tasaka et al. and Van den Enden.

*Conclusion*

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lixi Chow whose telephone number is 571-272-7571. The examiner can normally be reached on Mon-Fri, 8:30am to 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LC

WAYNE YOUNG  
SUPERVISORY PATENT EXAMINER